

ABSTRACT OF THE DISCLOSURE

A positioning device for aligning and guiding first and second mold halves together is provided. The positioning device includes a first member defining an alignment axis and having a male portion. The first member is mounted to the first mold half. A second member is separable from the first member and defines a female portion for mating with the male portion along the alignment axis to align the first and second mold halves together. The second member is mounted to the second mold half. The male portion presents a first bearing surface and the female portion presents a second bearing surface. A cage that rotatably supports a plurality of needle bearings reduces friction along the bearing surfaces when mating the members together along the alignment axis. A spring resiliently supports the cage.